

**Fig. 3B**

ONLY RNA WITH 2 DEOXY AT EACH END

1A 5'- cuccuuuuuuucugcuaacg-TT (SEQ ID NO:1)

1B  
3'-TT-gagaaaacaaagacgaugc (SEQ ID NO:2)

ONLY RNA WITH NH<sub>2</sub> GROUPS AT EACH 3' END AND 2 DEOXY

3A 5'- cuccuuuuuuuuucgcuuacg-TT-NH2 (SEQ ID NO:3)

3' -NH2-TT-gaggaaaacaaagacgaunc (SEQ ID NO:4)

ONLY RNA WITH INVERTED ABASIC AND 2 TT

4. 16153-iB (iB at the 3' ends)

5'-cuccuuuuuuucugcuaacg-TT-iB (SEQ ID NO:5)

3'-iB-TT-gaggaacaaagacgaugc (SEQ ID NO:6)

ONLY RNA WITH 2 DEOXY AT EACH END

5' - cucuuuuuuuuugucacg-TT (SEQ ID NO:7)

5BMM  
3'-TT-gaguaaaagaaacacgagugc (SEQ ID NO:8)



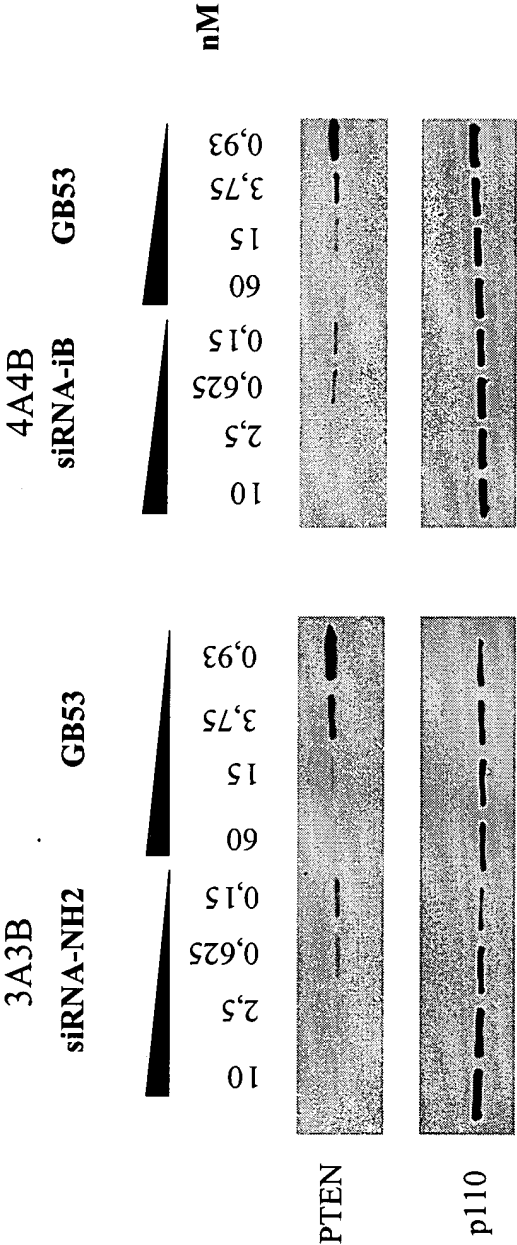


Fig. 3C



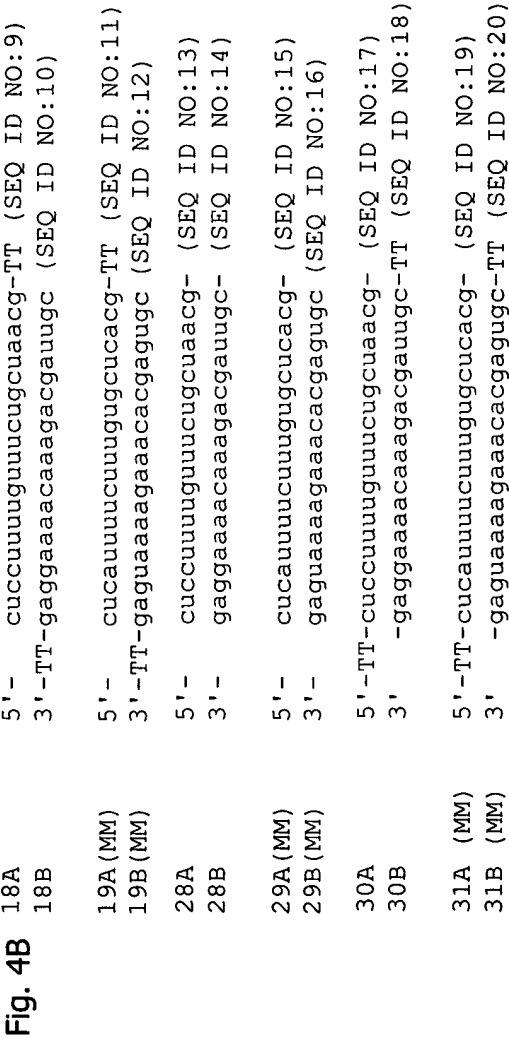
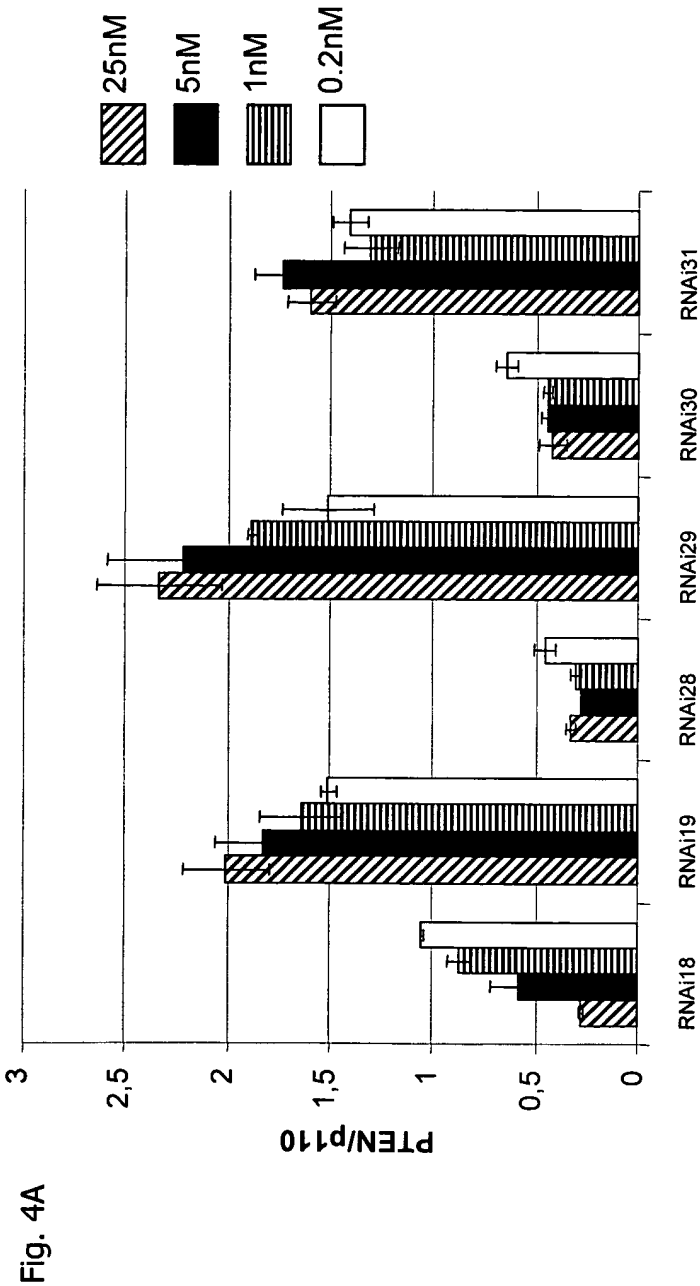




Fig. 5A

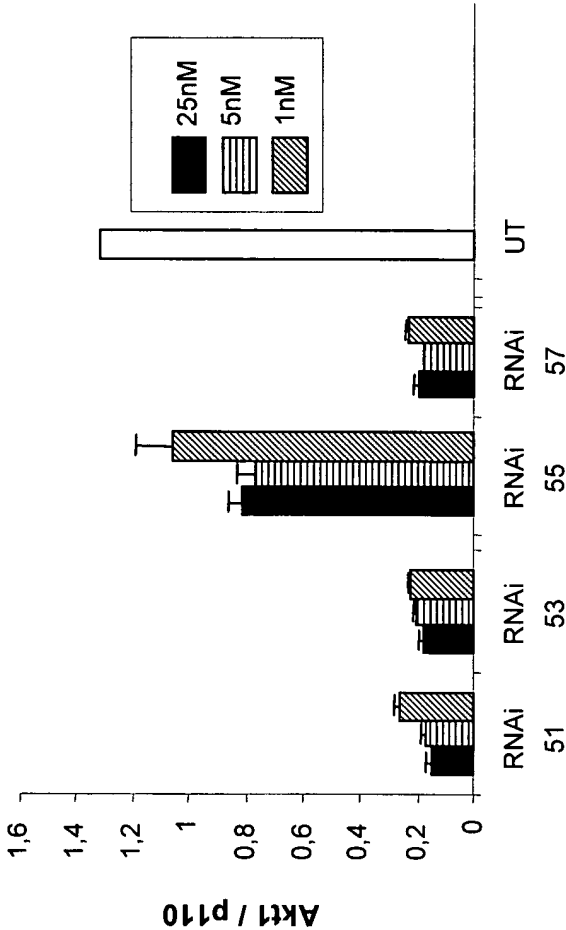
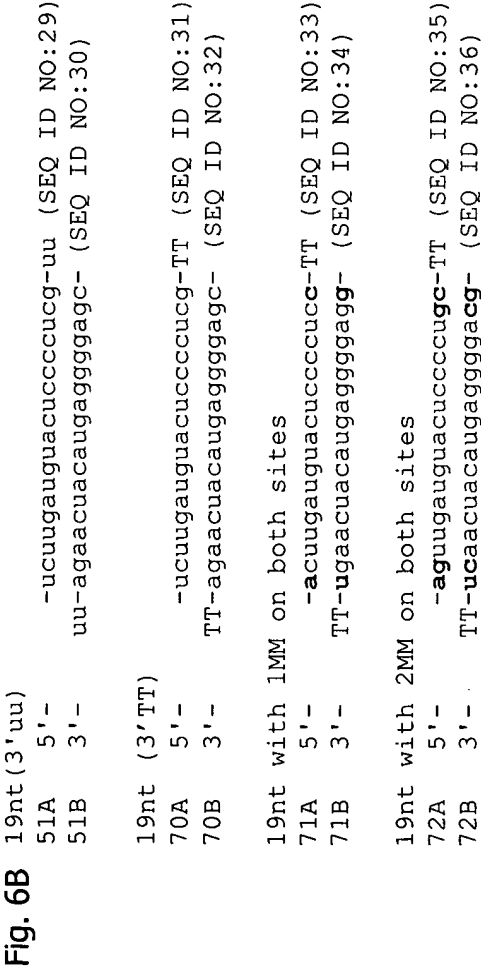
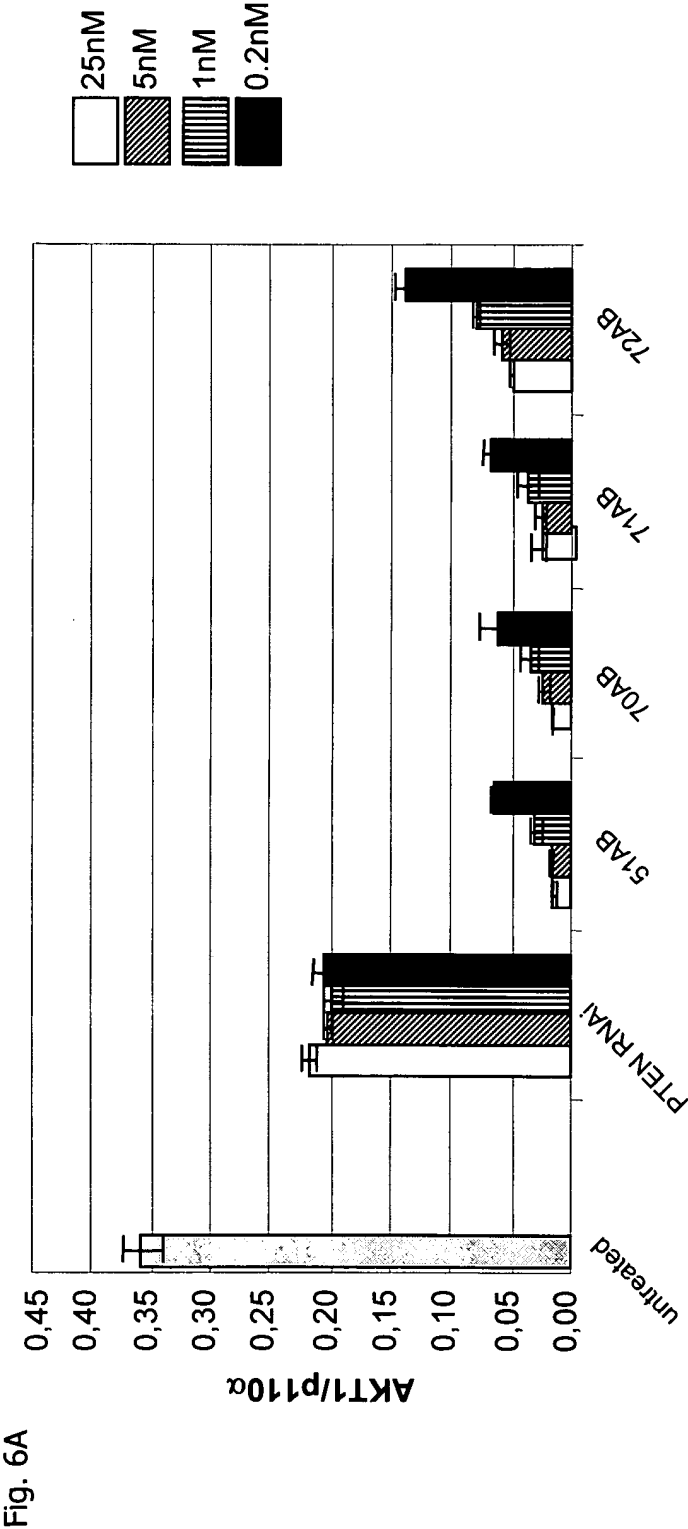


Fig. 5B

51A	5'-	-ucuugauguacuuccucg-uu	(SEQ ID NO:21)	19nt	3'uu
51B	3'-	uu-agaacuacaugaggaggc-	(SEQ ID NO:22)		
53A	5'-	-ucuugauguacuuccucg-uu	(SEQ ID NO:23)	19nt	3'seq.specific RNA
53B	3'-	cc-agaacuacaugaggaggc-	(SEQ ID NO:24)		
55A	5'-	-cuugauguacuuccucg-gu	(SEQ ID NO:25)	17nt	3'seq.specific RNA
55B	3'-	ca-gaacuacaugaggaggag-	(SEQ ID NO:26)		
57A	5'-	-ucuugauguacuuccucg-TT	(SEQ ID NO:27)	19nt	3'seq.specific DNA
57B	3'-	CC-agaacuacaugaggaggc-	(SEQ ID NO:28)		







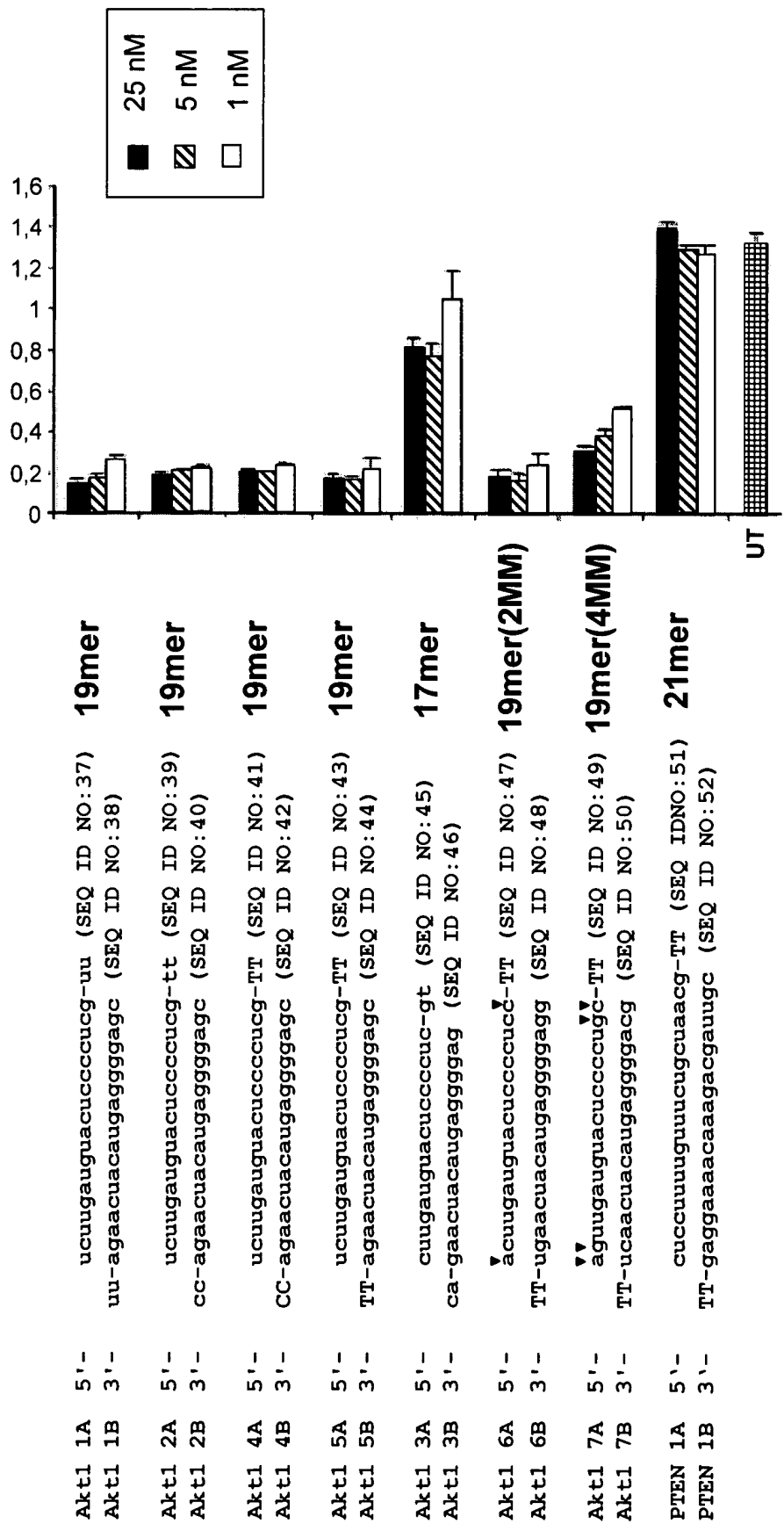


FIG. 7A



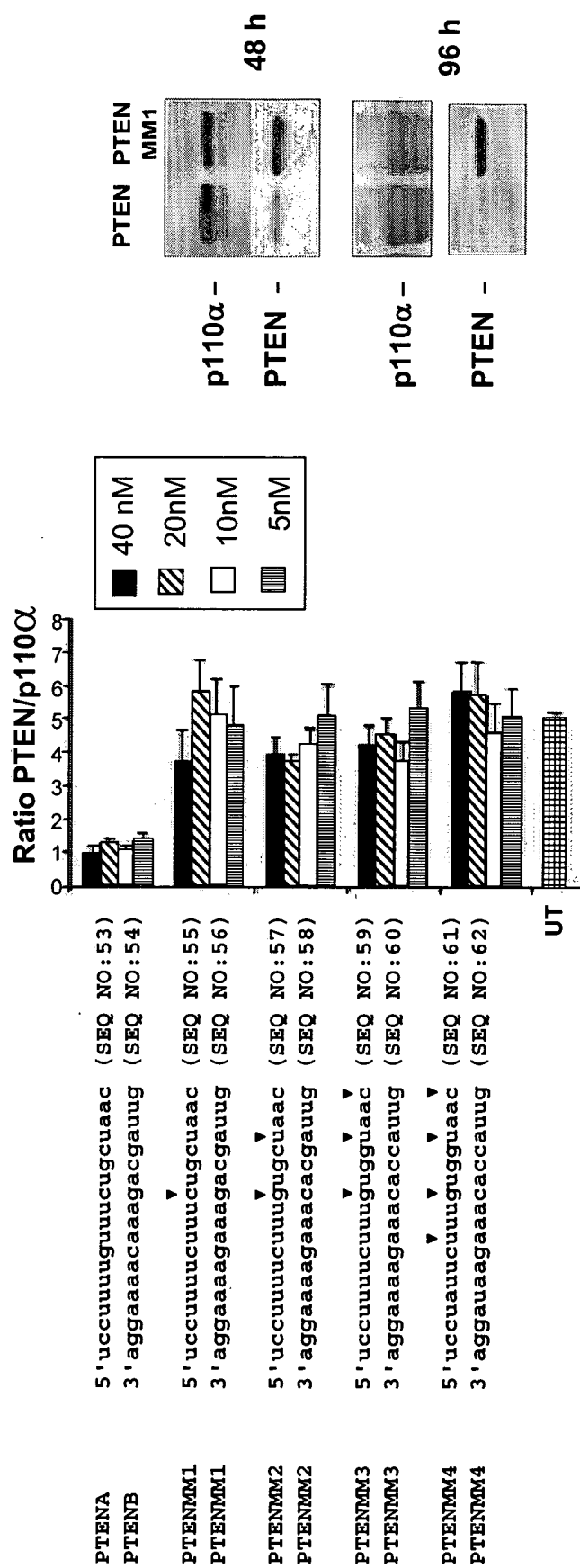


Fig. 7C

Fig. 7B



Fig. 8A

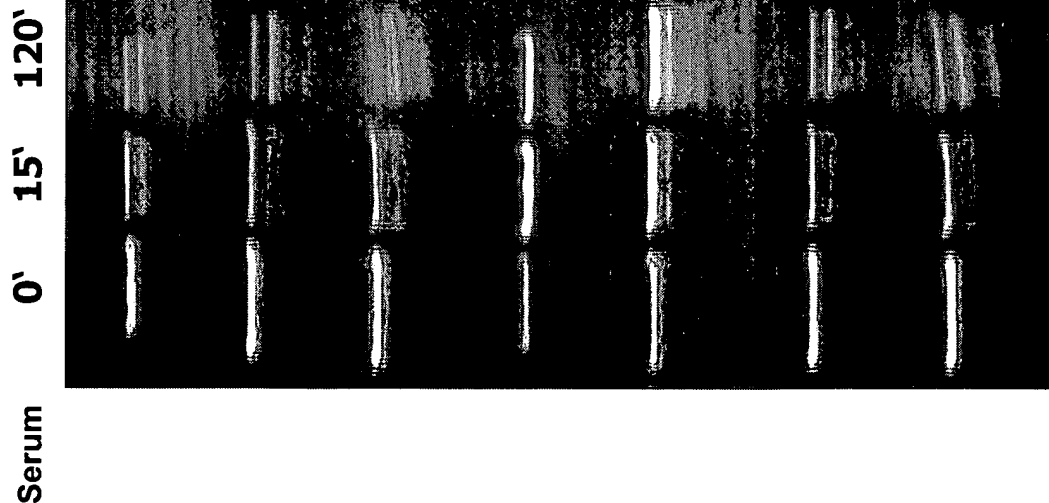


Fig. 8B

Tuschl	
18A	5'- cuccuuuuguuucugcuaacg-TT (SEQ ID NO:9)
18B	3'-TT-gaggaaaaaagacgaugc (SEQ ID NO:10)
inverted abasic on both ends and 2TT	
24A	5'- iB-cuccuuuuguuucugcuaacg-TT-iB (SEQ ID NO:63)
24B	3'-iB-TT-gaggaaaaaagacgaugc-iB (SEQ ID NO:64)
NH2groups at both ends AND 2-deoxy	
26A	5'- NH2-cuccuuuuguuucugcuaacg-TT-NH2 (SEQ ID NO:65)
26B	3'-NH2-TT-gaggaaaaaagacgaugc-NH2 (SEQ ID NO:66)
2'-O-Methyl modified with 2-deoxy at each end	
79A	5'- cuccuuuuguuucugcuaacg-TT (SEQ ID NO:67)
79B	3'- TT-gaggaaaaaagacgaugc (SEQ ID NO:68)
Only RNA	
28A	5'- cuccuuuuguuucugcuaacg- (SEQ ID NO:13)
28B	3'- gaggaaaaaagacgaugc- (SEQ ID NO:14)
Only RNA with 2-deoxy at each 5' end	
30A	5'-TT-cuccuuuuguuucugcuaacg- (SEQ ID NO:17)
30B	3'- gaggaaaaaagacgaugc-TT (SEQ ID NO:69)
NH2 groups at each 3'end and 2-deoxy	
3A	5'- cuccuuuuguuucugcuaacg-TT-NH2 (SEQ ID NO:70)
3B	3'-NH2-TT-gaggaaaaaagacgaugc- (SEQ ID NO:71)



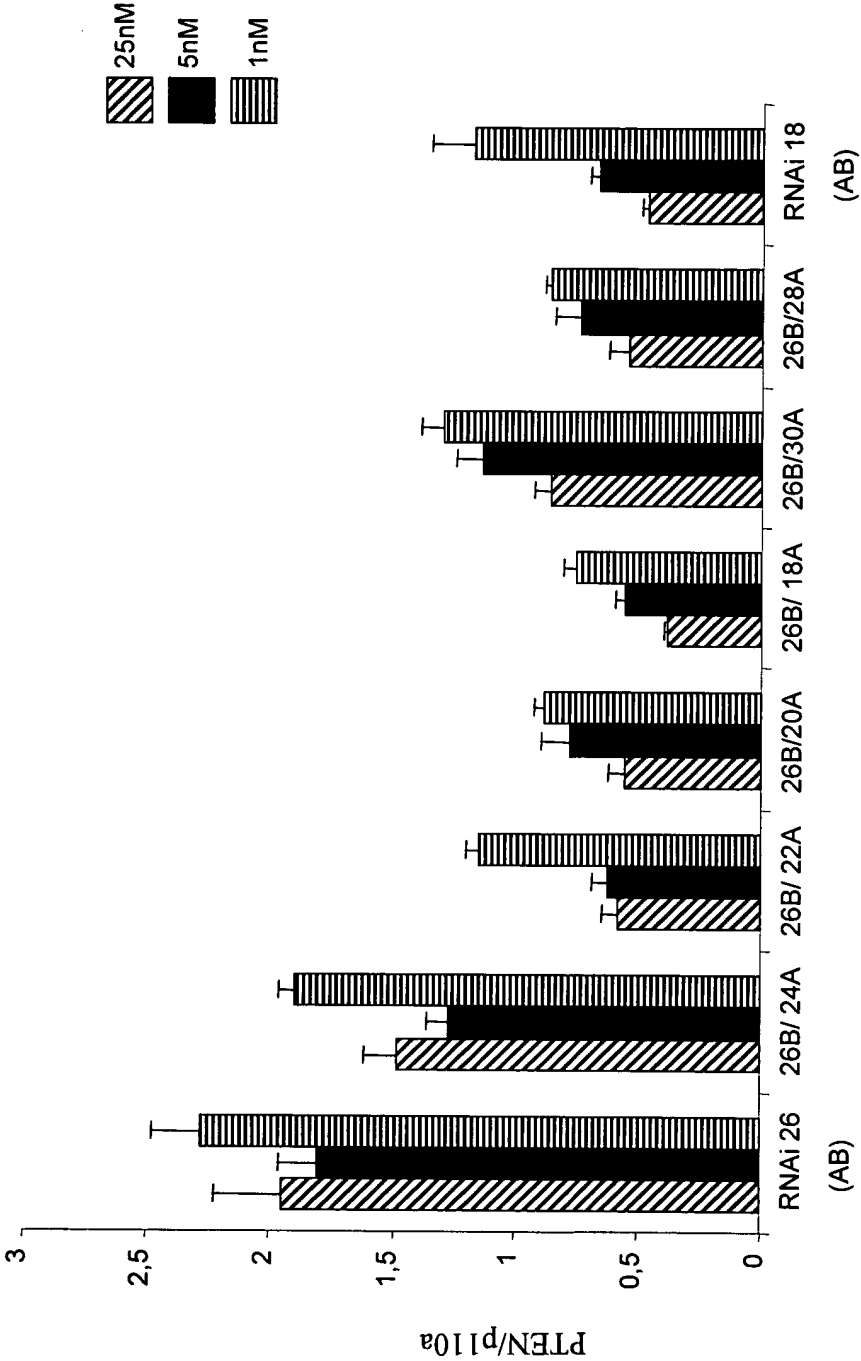


Fig. 9A



FIG. 9B

26A	5' -	NH2-cuccuuuuuuucugcuaacg-TT-NH2	(SEQ ID NO:72)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
24A	5' -	iB-cuccuuuuuuucugcuaacg-TT-iB	(SEQ ID NO:73)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
22A	5' -	cuccuuuuuuucugcuaacg-TT-iB	(SEQ ID NO:74)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
20A	5' -	cuccuuuuuuucugcuaacg-TT-NH2	(SEQ ID NO:75)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
18A	5' -	cuccuuuuuuucugcuaacg-TT	(SEQ ID NO:78)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
30A	5' -	TT-cuccuuuuuuucugcuaacg-	(SEQ ID NO:76)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
28A	5' -	cuccuuuuuuucugcuaacg-	(SEQ ID NO:80)
26B	3' -	NH2-TT-gaggaaaaaagacgauugc-NH2	(SEQ ID NO:77)
18A	5' -	cuccuuuuuuucugcuaacg-TT	(SEQ ID NO:78)
18B	3' -	TT-gaggaaaaaagacgauugc	(SEQ ID NO:79)

FIG. 9C

-nnnnnnnnnnnnnn-tt	
NH2-nnnnnnnnnnnnnnn-NH2	functional
-nnnnnnnnnnnnnn-tt-NH2	
NH2-nnnnnnnnnnnnnnn-NH2	functional
NH2-nnnnnnnnnnnnnnn-tt-NH2	
tt-nnnnnnnnnnnnnnn-tt	not functional



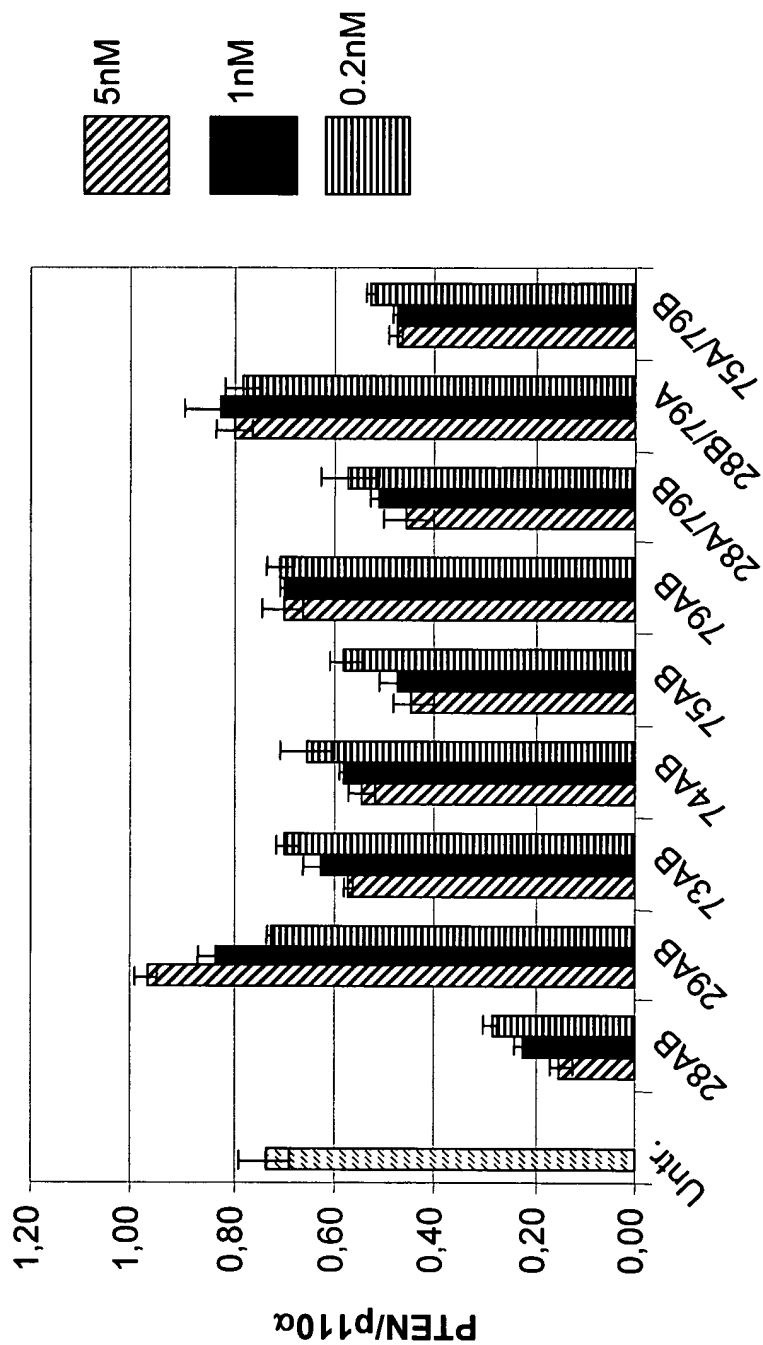


Fig. 10A



Fig. 10B



Fig. 10C

RNA	5' -	3' -	SEQ ID NO:13
28A	<i>cuccuuuuguuucgcuacg-</i>		
28B	<i>gaggaaaaaagacgaungc</i>		
29A	<i>cuccuuuuguuucgcuacg</i>		
29B	<i>gaggaaaaaagacgaungc</i>		
73A	<i>cuccuuuuguuucgcuacg-</i>		
73B	<i>-gaggaaaaaagacgaungc-</i>		
74A	<i>cuccuuuuguuucgcuacg-</i>		
74B	<i>-gaggaaaaaagacgaungc-</i>		
75A	<i>cuccuuuuguuucgcuacg-</i>		
75B	<i>-gaggaaaaaagacgaungc-</i>		
79A	<i>cuccuuuuguuucgcuacg-</i>		
79B	<i>-gaggaaaaaagacgaungc-</i>		
28A	<i>cuccuuuuguuucgcuacg-</i>		
29B	<i>-gaggaaaaaagacgaungc-</i>		
79A	<i>cuccuuuuguuucgcuacg-</i>		
28B	<i>gaggaaaaaagacgaungc-</i>		
75A	<i>cuccuuuuguuucgcuacg-</i>		
79B	<i>-gaggaaaaaagacgaungc-</i>		



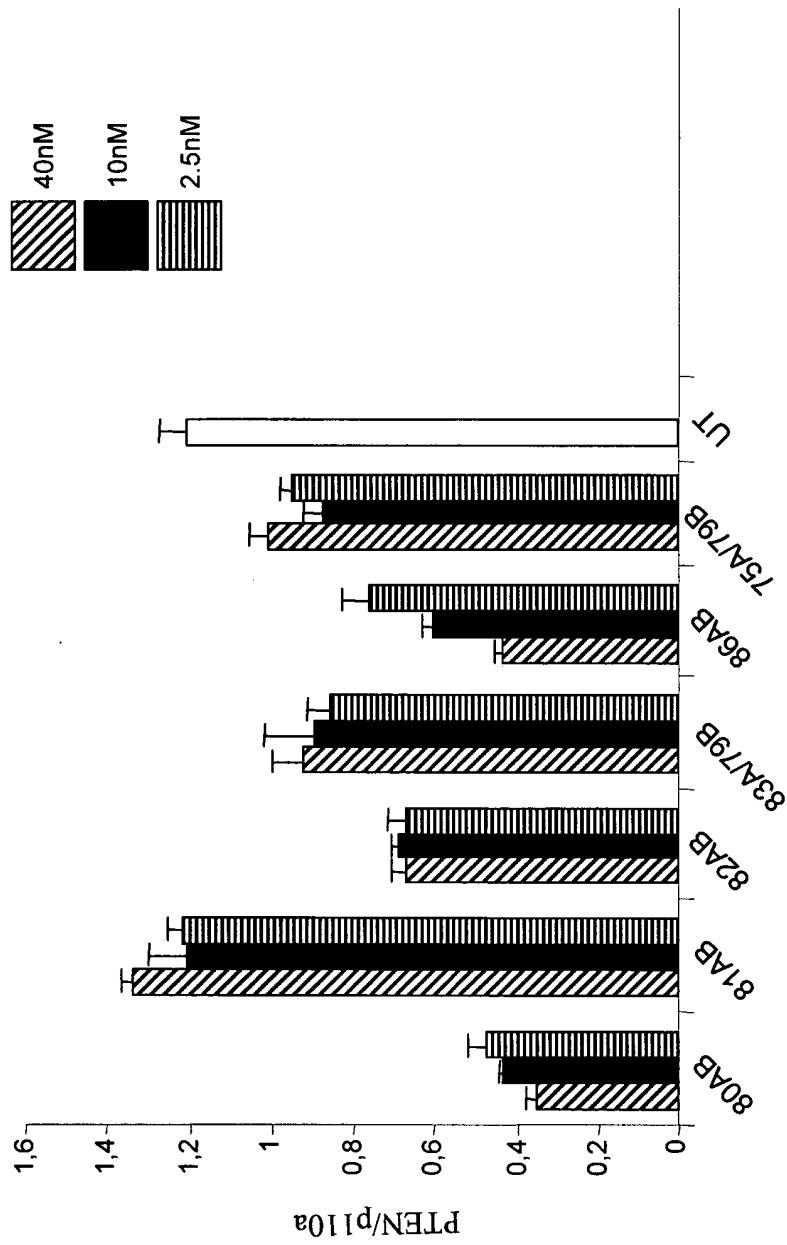


Fig. 11A



Fig. 11B

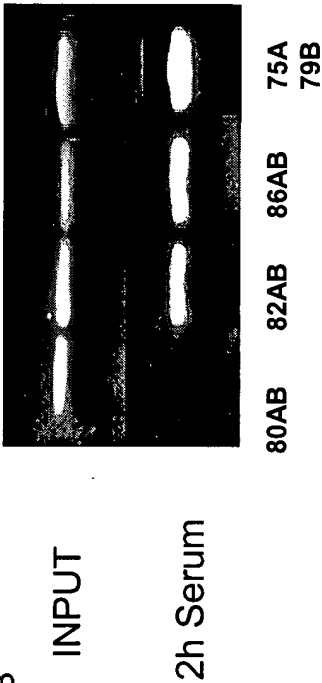


Fig. 11C

RNA	Bold Italics	represents	2'O-methyl
80A	5' -	cuccuuuuuuuucugcuaacg-	(SEQ ID NO:91)
80B	3' -	-gaggaaaaacaaagacgaungc-	(SEQ ID NO:92)
81A	5' -	<b>cuccuuuuuuuucugcuaacg-</b>	(SEQ ID NO:93)
81B	3' -	<b>-gaggaaaaacaaagacgaungc-</b>	(SEQ ID NO:94)
82A	5' -	cuccuuuuuuuucugcuaacg-	(SEQ ID NO:95)
82B	3' -	<b>gaggaaaaacaaagacgaungc-</b>	(SEQ ID NO:96)
83A	5' -	cuccuuuuuuuucugcuaacg-	(SEQ ID NO:97)
79B	3' -	<b>-gaggaaaaacaaagacgaungc-</b>	(SEQ ID NO:90)
86A	5' -	cuccuuuuuuuucugcuaacg-	(SEQ ID NO:98)
86B	3' -	<b>-gaggaaaaacaaagacgaungc-</b>	(SEQ ID NO:99)
75A	5' -	cuccuuuuuuuucugcuaacg-	(SEQ ID NO:100)
79B	3' -	<b>-gaggaaaaacaaagacgaungc-</b>	(SEQ ID NO:90)



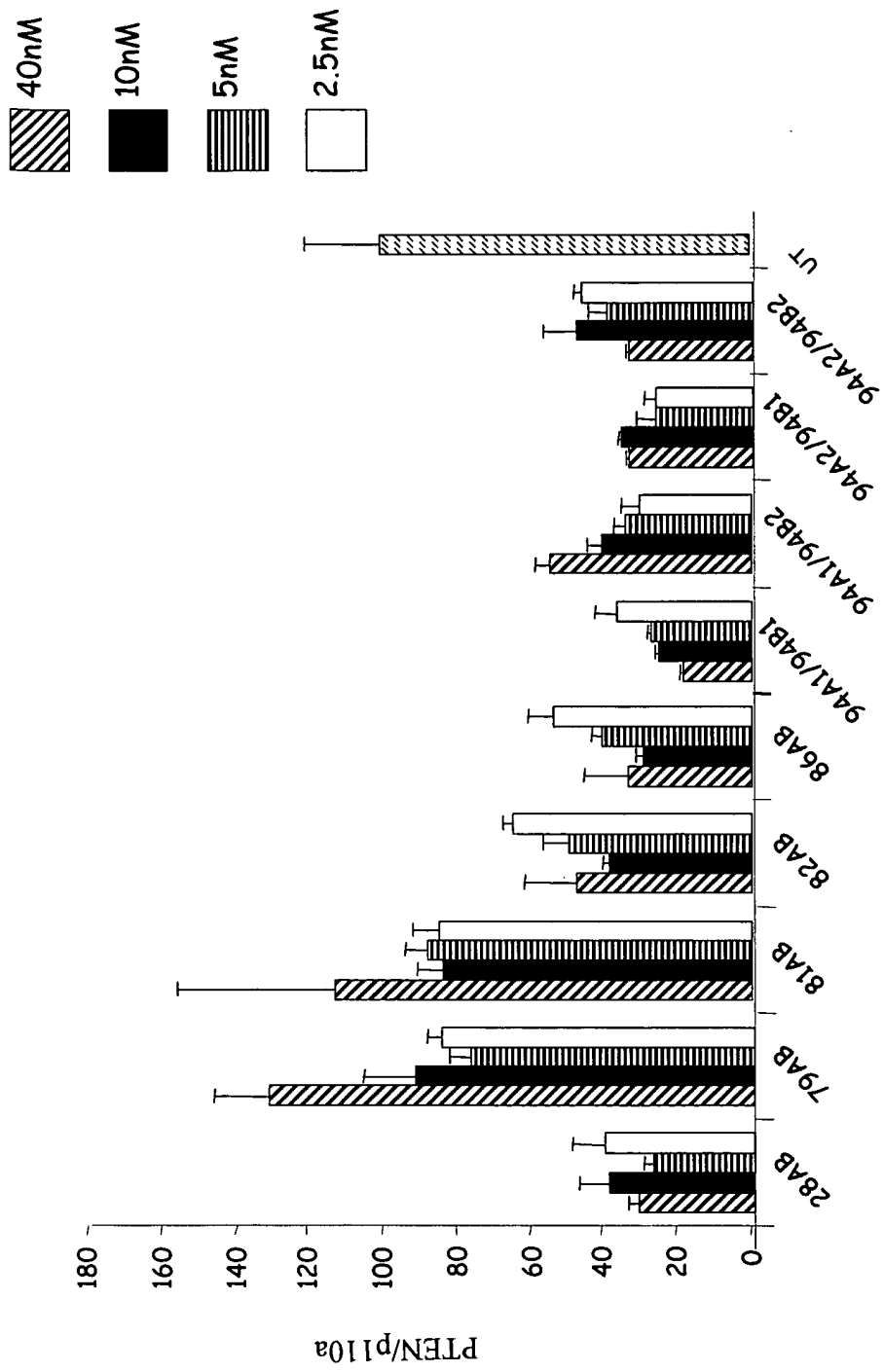


Fig. 12A



RNA Bold Italics represents 2' O-methyl		
28A	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:101)
28B	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:102)
79A	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:103)
79B	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:104)
81A	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:105)
81B	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:106)
82A	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:107)
82B	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:108)
86A	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:109)
86B	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:110)
94A1	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:111)
94B1	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:112)
94A1	5'- cuccuuuuuuuucugcuaacg-	(SEQ ID NO:113)
94B2	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:114)
94A2	5'- cuccuuuuuuuucugcuaacg	(SEQ ID NO:115)
94B1	3'- gaggaacaaacagacgaugc-	(SEQ ID NO:116)
94A2	5'- cuccuuuuuuuucugcuaacg	(SEQ ID NO:117)
94B2	3'- gaggaacaaacagacgaugc	(SEQ ID NO:118)

Fig. 12B



Fig. 12C

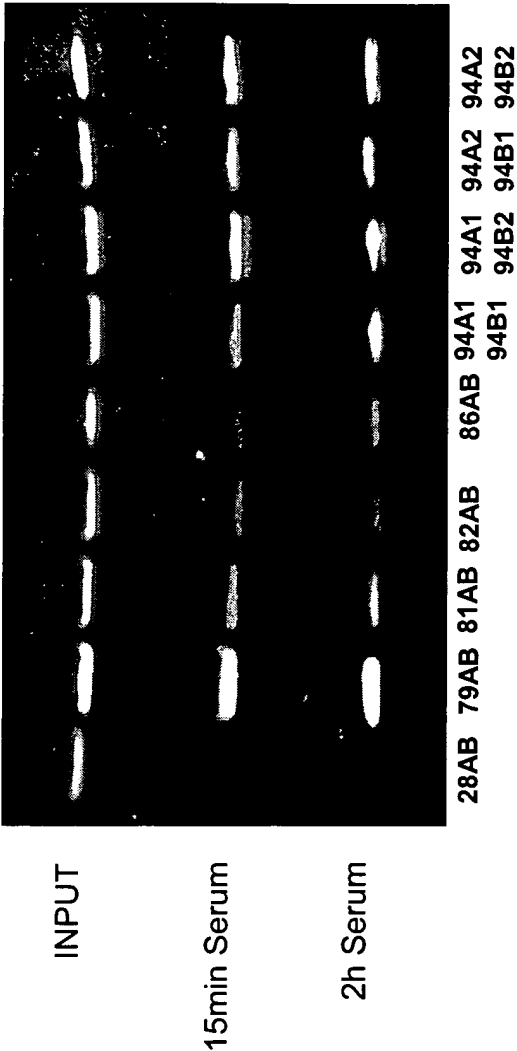
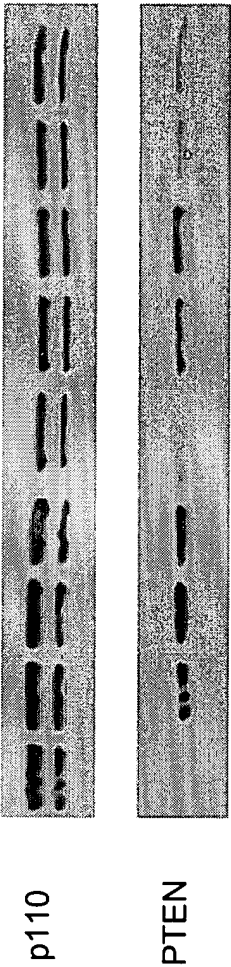


Fig. 12D





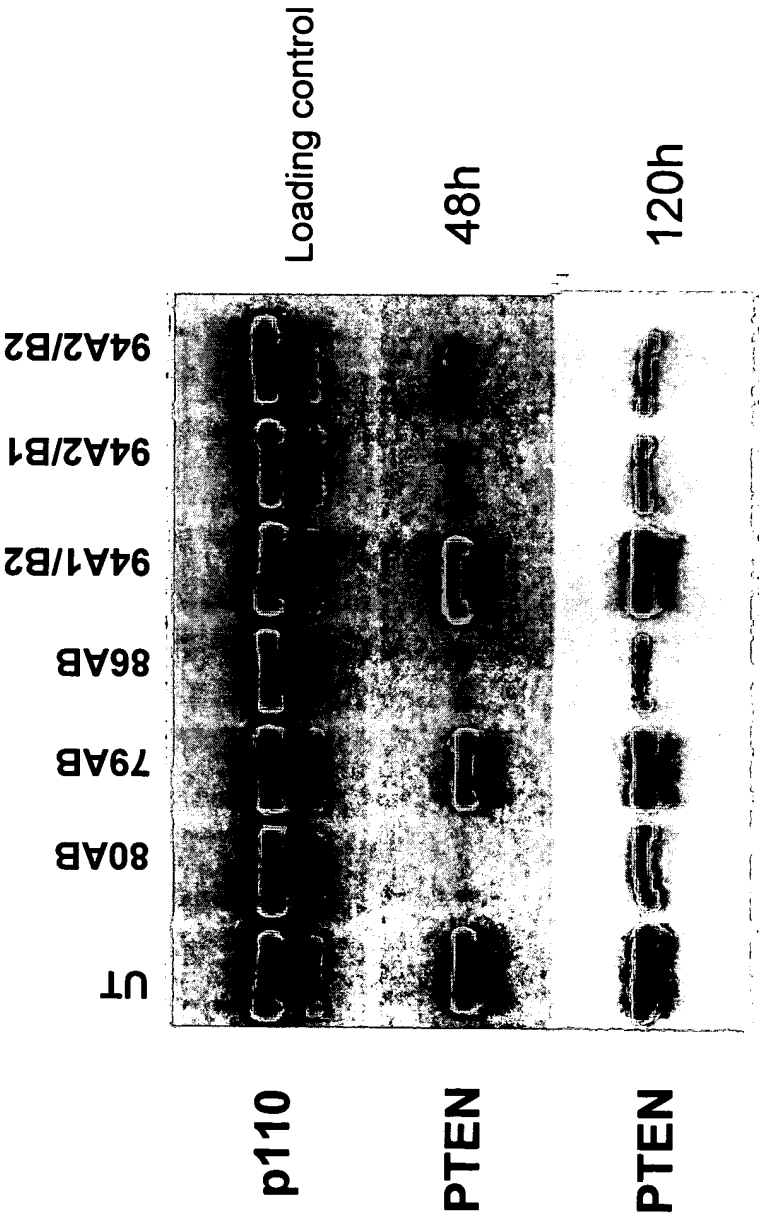


Fig. 13



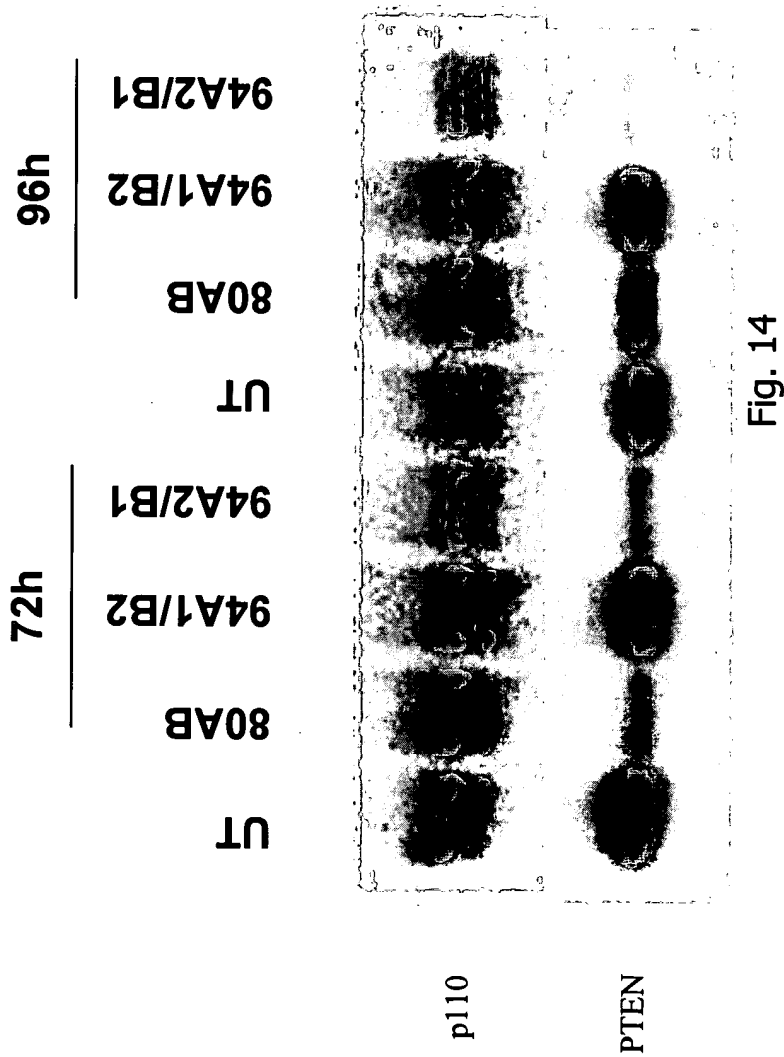
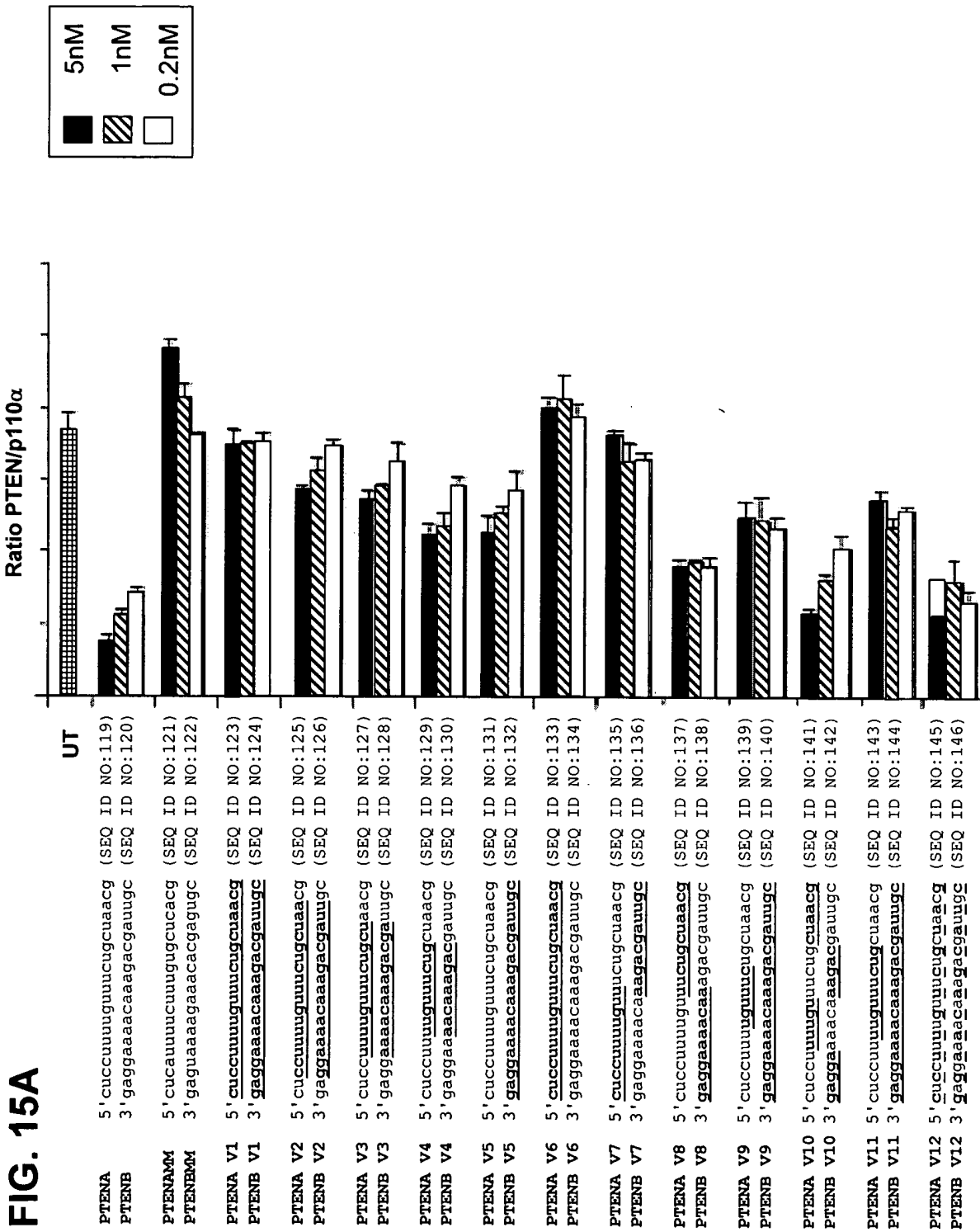


Fig. 14







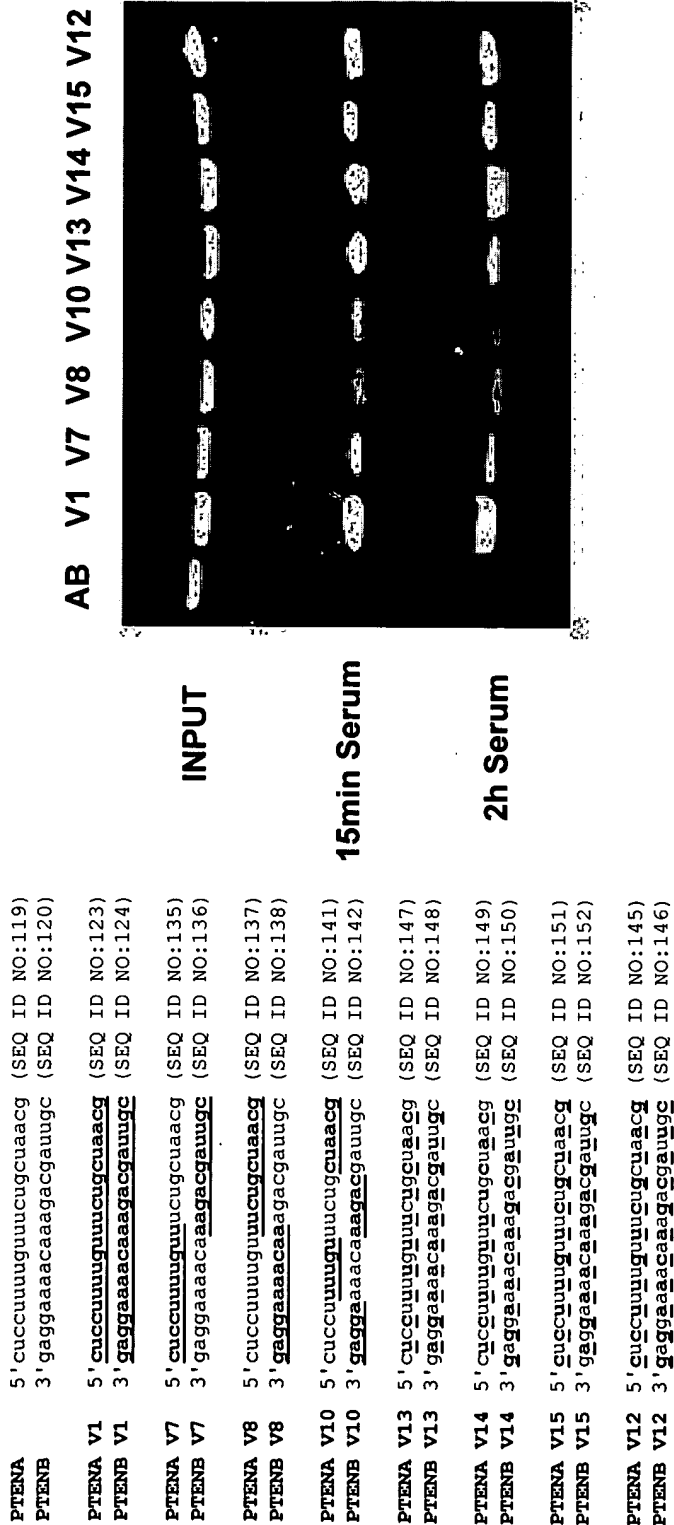


Fig. 15B

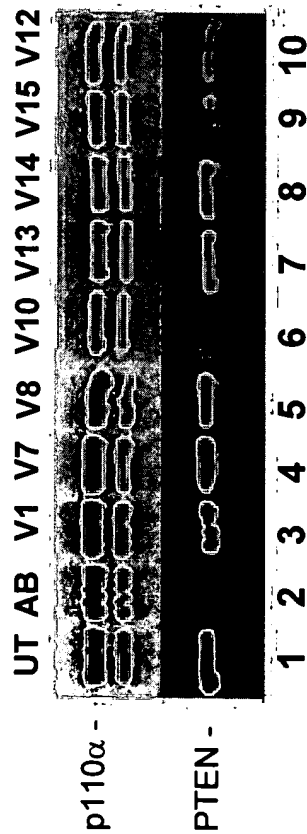


Fig. 15C

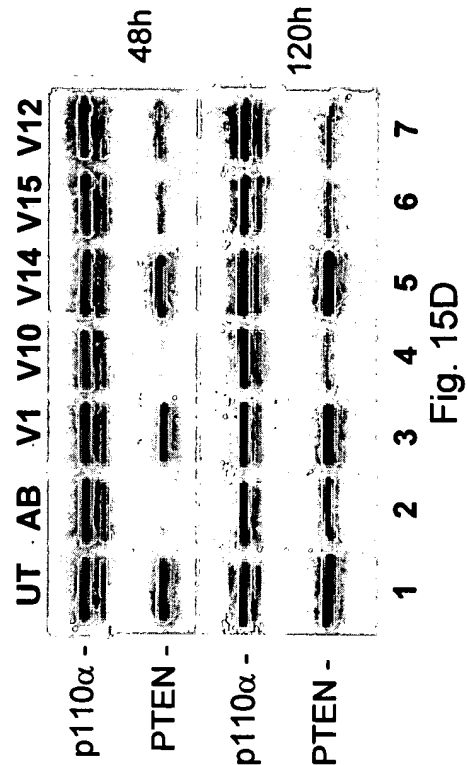


Fig. 15D



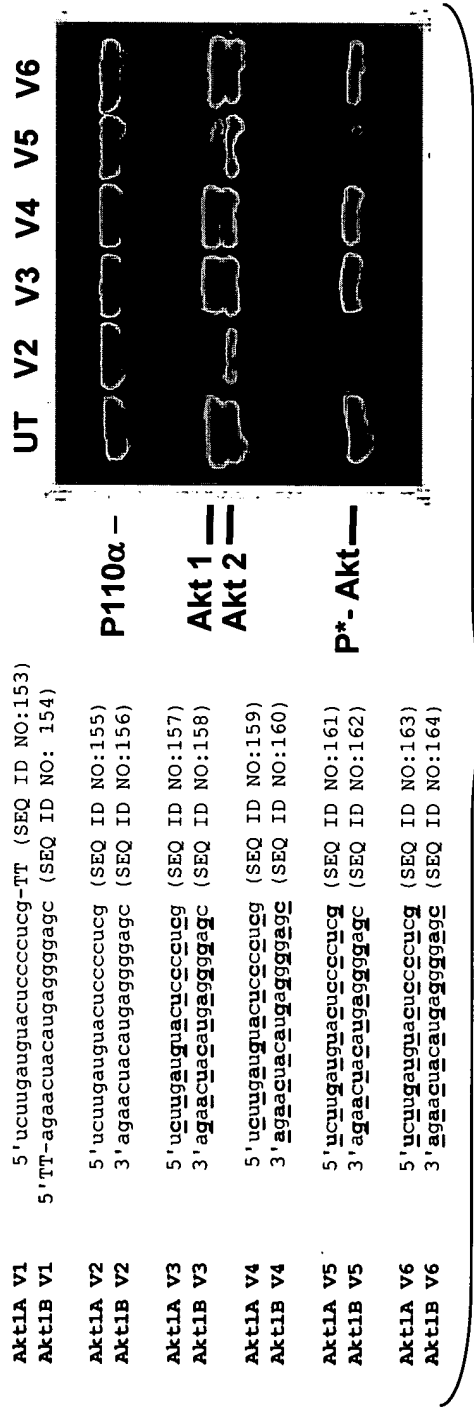


Fig. 16A

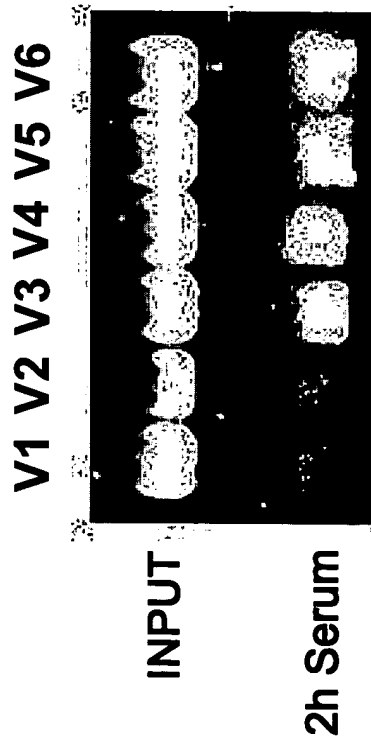


Fig. 16B



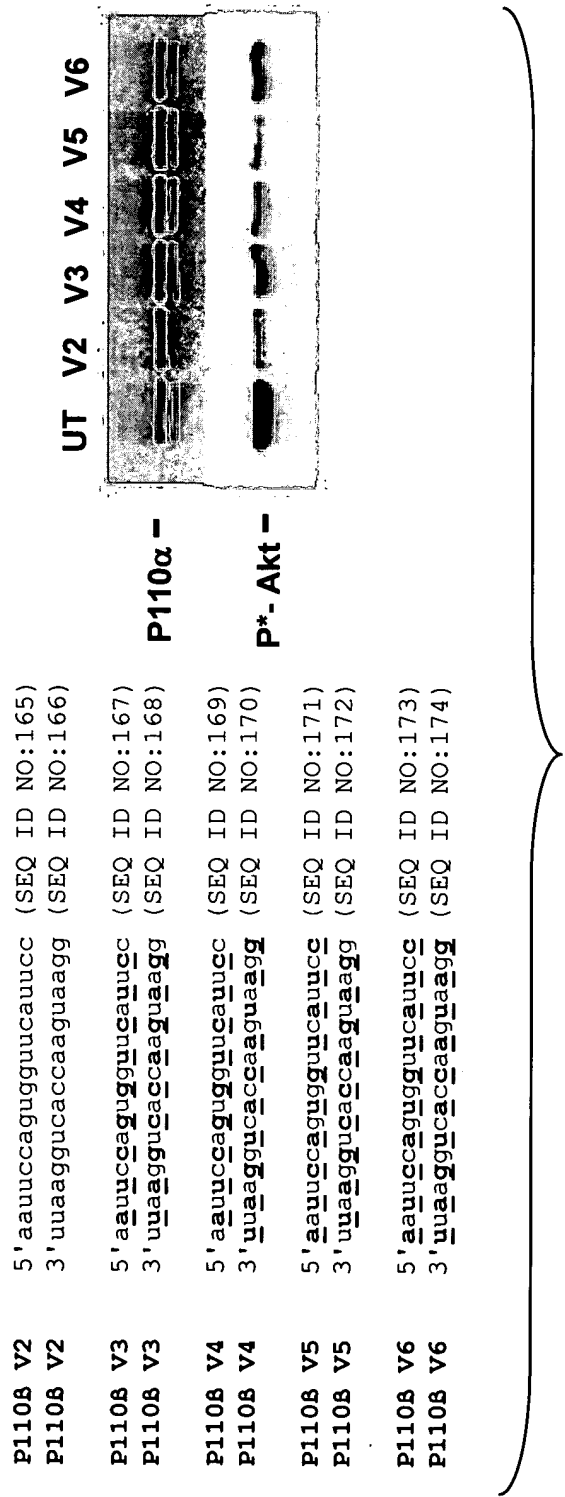


Fig. 16C



Fig. 17A

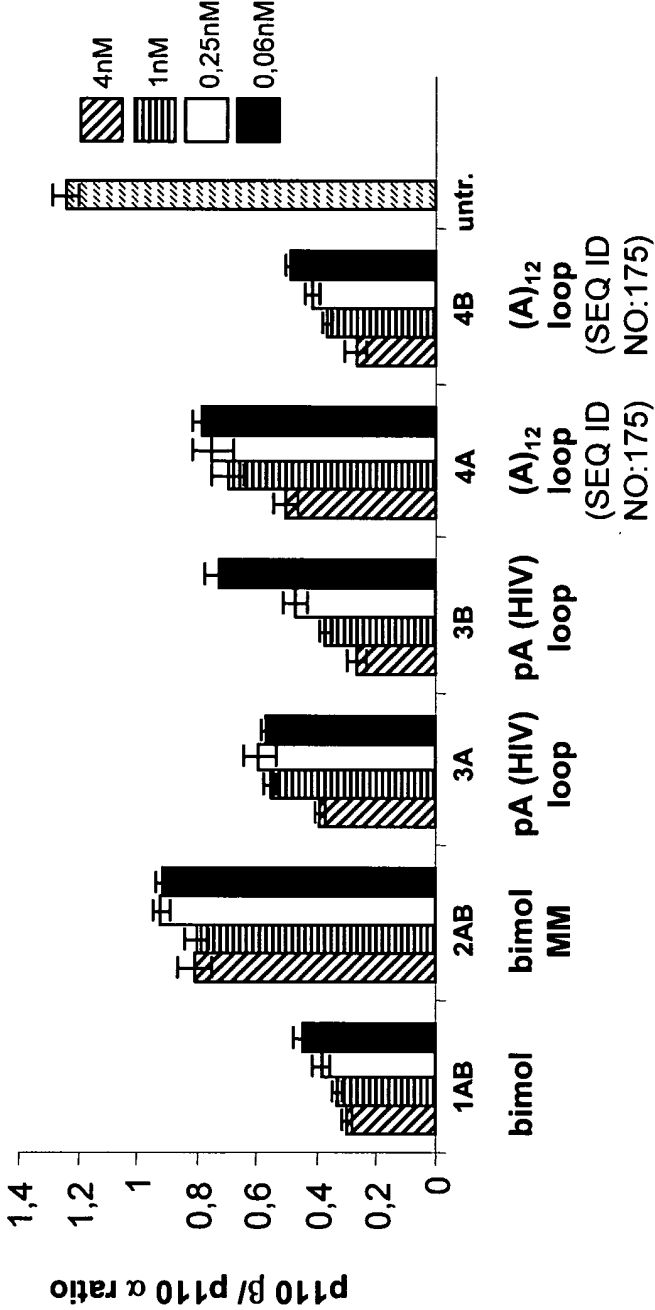


Fig. 17B

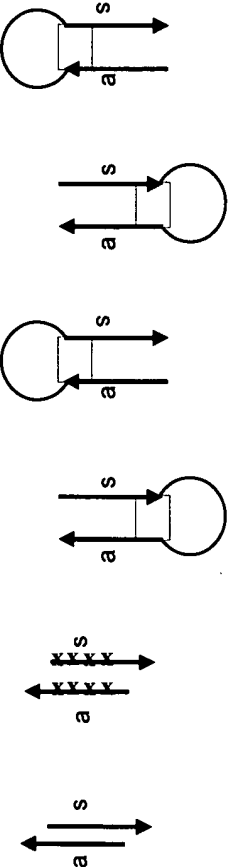




Fig. 18B

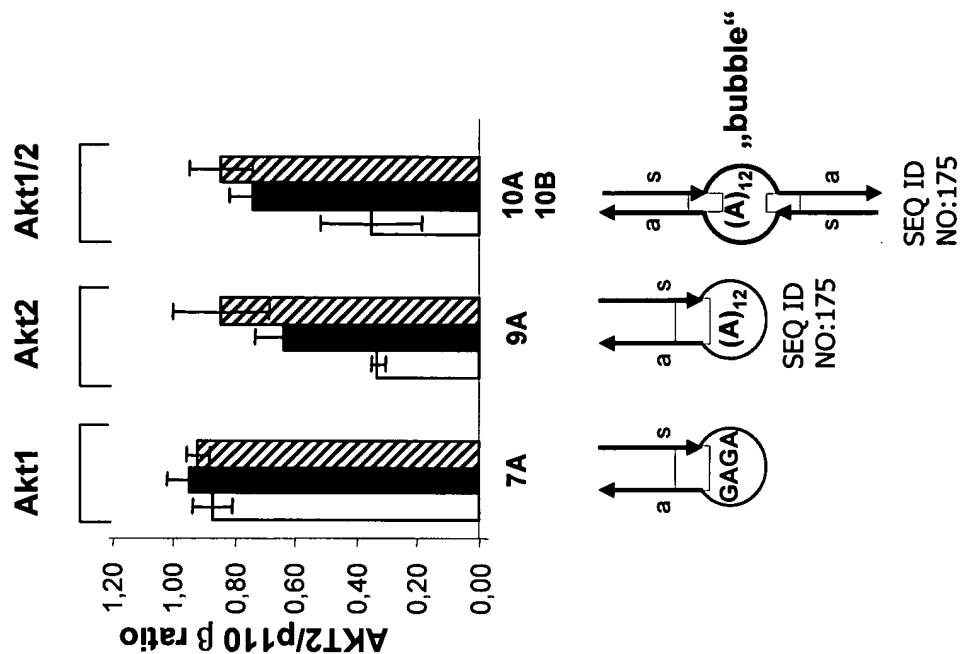
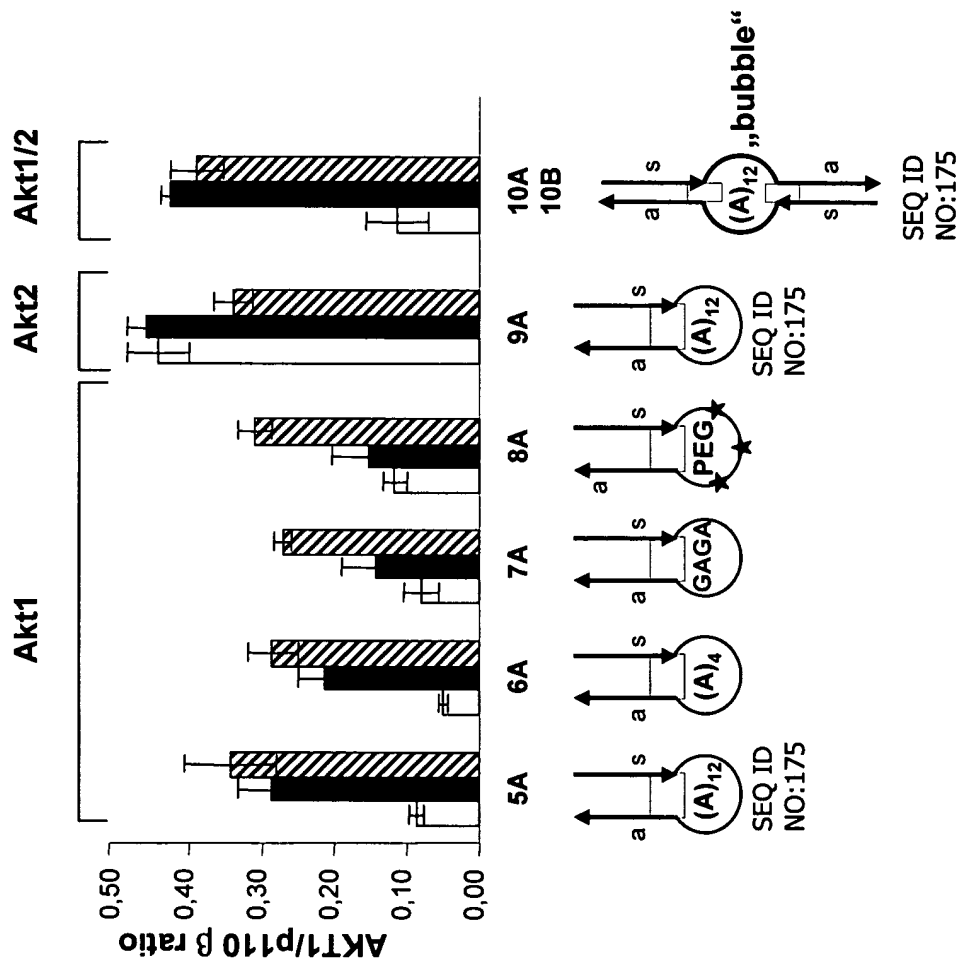
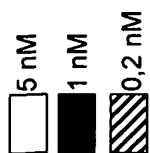


Fig. 18A





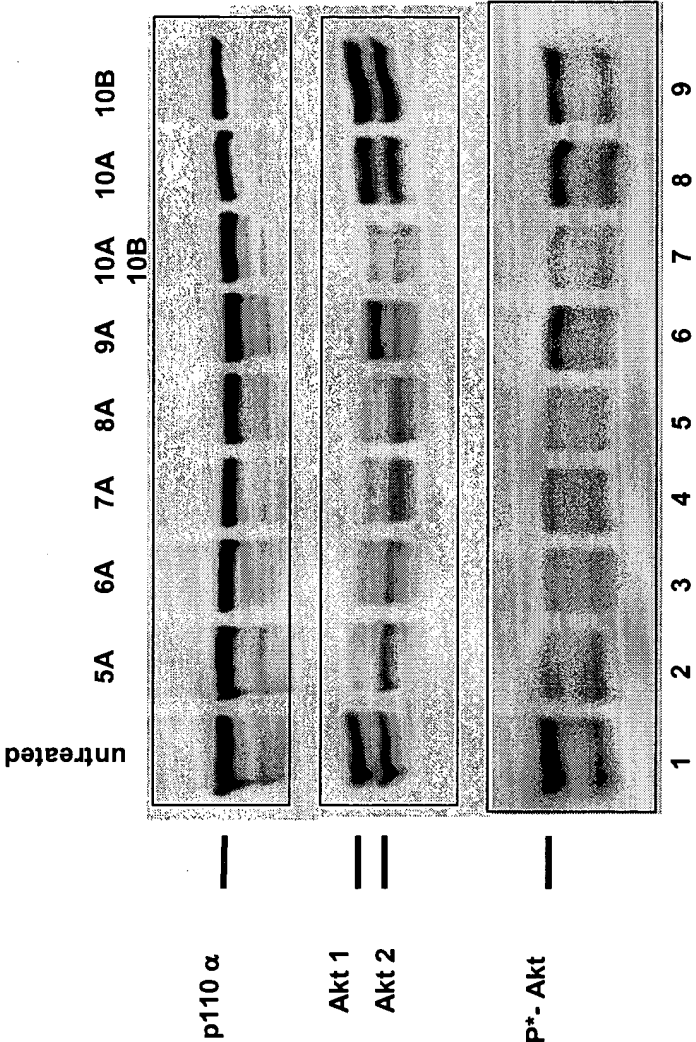


Fig. 18C